Serial No.: 10/537,187

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Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended) A compound represented by formula I:

or a pharmaceutically acceptable salt or solvate thereof, wherein:

a and b are independently selected from the integers 0 and 1, such that the sum of a and b is 0 or 1; one
of a and b is 1 and the other is 0:

X is selected from CH₂ and C(O);

R¹ is selected from the group consisting of:

- (1) C₁₋₁₅ alkyl optionally substituted with up to five groups as follows: (a) 1-3 OH groups; (b) 1 oxo group; (c) 1-5 halo groups, up to a perhaloalkyl group; (d) 1-3 C₁₋₆ alkoxy groups optionally substituted with up to five halo or a perhaloalkoxy, or up to 2 hydroxy or CO₂R⁶ groups; (e) 1-2 CO₂R⁶ groups and (f) 1-2 phenyl groups, each optionally substituted as follows: 1-5 halo groups, (2) 1-2 OH, CO₂R⁶, CN or S(O)_pR⁵ groups, and (3) 1-2 C₁₋₆ alkyl or alkoxy groups, each optionally substituted with 1-5 halo, up to perhaloalkyl, and 1-2 OH or CO₂R⁶ groups; and
 - (2) aryl or heteroaryl, optionally substituted as set forth below:
- (a) 1-3 hydroxy groups; (b) 1-5 halo groups; (c) 1-3 C_{1-15} alkyl or alkoxy groups, each optionally substituted with up to five halo and 1-2 hydroxy or CO_2R^6 groups; (d) 1-2 CO_2R^6 , CN, $S(O)_pR^5$ or $CONR^9R^{10}$ groups; (e) NR^9R^{10} ; (f) SCF_3 ; (g) phenyl, heteroaryl or O-phenyl, said group being optionally substituted with 1-5 halo groups, 1-2 OH, CO_2R^6 , CN or $S(O)_nR^5$ groups, and 1-2 C_{1-6} alkyl or alkoxy groups, each optionally substituted with 1-5 halo, up to perhaloalkyl, and 1-2 OH or CO_2R^6 groups;

R² represents H or C₁₋₆alkyl;

R³ represents H or F;

R⁴ is selected from the group consisting of H, F and OH;

or R3 and R4 are taken in combination and represent an oxo group;

R⁵ represents a C₁₋₁₀alkyl group;

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R⁶ represents H or C₁₋₁₀alkyl, optionally substituted with OH, OC₁₋₆alkyl, CO₂H, CO₂C₁₋₆alkyl, and 1-3 halo groups;

 R^7 represents H, CO_2R^6 , C_{1-6} alkyl optionally substituted with OH, OC_{1-6} alkyl, CO_2R^6 or 1-3 halo groups,

 R^8 and R^9 are independently selected from H and C_{1-6} alkyl; R^{10} is H or is independently selected from:

(a) C₁₋₁₀alkyl, optionally substituted with OH, OC₁₋₆alkyl, CO₂H, CO₂C₁₋₆alkyl, and 1-3 halo groups; (b) aryl or C₁₋₆ alkaryl, each optionally substituted with 1-5 halos and 1-3 members selected from the group consisting of: CN, OH, C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo; (c) heterocycle, or C₁₋₆alkyl-heterocycle, optionally substituted with 1-5 halo groups and 1-3 groups selected from: oxo, C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo; and (d) heteroaryl or C₁₋₆alkyl-heteroaryl, optionally substituted with 1-5 halo groups and 1-3 groups selected from: C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo;

R¹¹ is independently selected from the group consisting of:

(a) C₁₋₁₀alkyl, optionally substituted with OH, OC₁₋₆alkyl, CO₂H, CO₂C₁₋₆alkyl, and I-3 halo groups; (b) aryl or C₁₋₆ alkaryl, each optionally substituted with 1-5 halos and 1-3 members selected from the group consisting of: CN, OH, C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo; (c) heterocycle, or C₁₋₆alkyl-heterocycle, optionally substituted with 1-5 halo groups and 1-3 groups selected from: oxo, C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo; and (d) heteroaryl or C₁₋₆alkyl-heteroaryl, optionally substituted with 1-5 halo groups and 1-3 groups selected from: C₁₋₁₀alkyl and OC₁₋₁₀ alkyl, said alkyl and alkoxy being further optionally substituted with 1-5 halo groups up to perhalo;

Y represents a 4 to 8 membered spirocarbocyclic ring or a spiroheterocyclic ring containing up to three heteroatoms, 0.1 of which are selected from O and S and 0.3 of which are N, said spirocarbocyclic or spiroheterocyclic ring being optionally substituted on either carbon or nitrogen atoms with up to three groups independently selected as follows:

(a) 1-2 phenyl groups, each being optionally substituted with one to five groups independently selected from the group consisting of: (1) 1-3 hydroxy groups; (2) 1-5 halo groups; (3) 1-3 C₁₋₈alkyl or alkoxy groups, each being further optionally substituted with 1-5 halo or 1-2 OH or CO₂R⁶ groups, and (4) 1-2 CO₂R⁶, CN, S(O)₀R⁵, CONR⁹R¹⁰ or NO₂ groups;

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(b) C_{1-10} alkyl optionally substituted with 1-5 groups selected as follows: (i) 1-3 hydroxy groups; (ii) 1 oxo group; (iii) 1-5 halo groups up to perhalo; (iv) 1-3 C₁₋₁₀ alkoxy groups, optionally substituted with 1-5 halo groups up to perhalo, or 1-2 hydroxy or CO₂R⁶ groups; (v) 1-2 CO₂R⁶ groups; (vi) phenyl, optionally substituted with one to five groups independently selected from the group consisting of: (a) 1-3 hydroxy groups; (b) 1-5 halo groups; (c) 1-3 C₁₋₆ alkyl or alkoxy groups, optionally substituted with 1-5 halo groups up to perhalo, or 1-2 hydroxy or CO₂R⁶ groups; (d) 1-2 CO₂R⁶, CN, S(O)₀R⁵, CONR⁹R¹⁰ or NO₂ groups; (e) 1-2 phenyl rings, each of which is optionally substituted as follows: 1-3 C₁₋₁₀ alkyl or alkoxy groups, each being further optionally substituted with 1-5 halo up to perhalo, or 1-2 hydroxy or CO₂R⁶ groups;

said spirocarbocyclic or spiroheterocyclic ring being further optionally substituted on a carbon atom with a member selected from the group consisting of:

- (a) $-NR^8-C(O)-NR^9R^{10}$; (b) $-NR^8-CO_2R^{11}$; (c) $-NR^8-C(O)R^{11}$; (d) $-NR^9R^{10}$;
- (e) $-NR^8SO_2R^{11}$; (f) $-SO_2-NR^9R^{10}$; (g) $-C(O)NR^9R^{10}$ and (h) $-OC(O)-NR^9R^{10}$;

and when said ring contains a nitrogen atom, said ring being further optionally substituted on the nitrogen atom with a member selected from the group consisting of:

(a) $-C(O)NR^9R^{10}$; (b) $-CO_2R^{11}$; (c) $C(O)R^{11}$; and (d) $-SO_2R^{11}$;

m and p are independently selected from 0, 1 and 2, and n is an integer from 0 to 6, when both m and n are zero, Z is selected from 5-tetrazolyl and 5-(2-oxo-1,3,4oxadiazolyl) and when one of m and n is other than zero, Z is selected from the group consisting of: CO₂R⁶, with R⁶ as defined above, 5-tetrazolyl and 5-(2-oxo-1,3,4-oxadiazolyl).

> Claim 2 (Original) A compound in accordance with claim 1 wherein: R¹ is selected from the group consisting of:

- (1) C₁₋₆ alkyl optionally substituted with 1-3 groups selected from: OH, halo, C₁₋₃ alkoxy, halo-C₁₋₃alkoxy and phenyl, said phenyl being optionally substituted with 1-3 halo groups, SO₂R⁵, and I-2 C₁₋₃alkyl or alkoxy groups optionally substituted with 1-3 halo groups, and
- aryl optionally substituted with 1-3 halo groups; 1-2 C₁₋₃alkyl or alkoxy groups, each optionally substituted with 1-3 halo groups; -NR 9R 10 wherein R 2 and R 10 are H or methyl; SCF3 and heteroaryl.

Claim 3 (Original) A compound in accordance with claim 2 wherein: R¹ represents phenyl optionally substituted with 1-2 groups selected from Br, Cl; trifluoromethyl and trifluoromethoxy.

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Claims 4-5 (Cancelled)

Claim 6 (Currently Amended) A compound in accordance with claim 1 wherein: Y represents a spiroC_{4.8}cycloalkyl group or a 5-6 membered spiroheterocyclic group containing 1-N atom,

said ring being optionally substituted with a C₁₋₆ alkyl group, which is optionally substituted with 1-3 halo groups or 1 Phenyl ring that is optionally substituted with 1-2 halo, 1-2 C₁₋₃ alkyl or alkoxy groups, said alkyl and alkoxy substituents being further optionally substituted with 1-3 halo groups.

Claim 7 (Currently Amended) A compound in accordance with claim 6 wherein: Y represents a spirocyclohexyl-or spiropiperidinyl group that is substituted with a C₁₋₄ alkyl group that is optionally substituted with a phenyl ring.

Claim 8 (Original) A compound in accordance with claim 7 wherein: Y represents a spirocyclohexyl group substituted with a t-butyl group at the 4 position.

Claim 9 (Original) A compound in accordance with claim 1 wherein: R² is H or C₁. 3alkyl.

Claim 10 (Original) A compound in accordance with claim 9 wherein: R² represents H.

Claim 11 (Original) A compound in accordance with claim 1 wherein: R⁷ represents H or methyl.

Claim 12 (Original) A compound in accordance with claim 11 wherein R⁷ represents H.

Claim 13 (Original) A compound in accordance with claim 1 wherein: n and m represent 0, and Z represents a 5-tetrazolyl group.

Claim 14 (Original) A compound in accordance with claim 1 wherein: m represents 0, n represents 2, and Z represents a CO₂R⁶ group.

Claim 15 (Original) A compound in accordance with claim 1 wherein:

m and n each represent 1, R3 represents OH, R4 represents H and Z represents a CO2R6 group.

Claim 16 (Currently Amended) A compound in accordance with claim 1 wherein: R¹ is selected from the group consisting of:

- (1) C_{1-6} alkyl optionally substituted with 1-3 groups selected from: OH, halo, C_{1-3} alkoxy, halo- C_{1-3} alkoxy and phenyl, said phenyl being optionally substituted with 1-3 halo groups, SO_2R^5 , and 1-2 C_{1-3} alkyl or alkoxy groups optionally substituted with 1-3 halo groups, and
- (2) aryl optionally substituted with 1-3 halo groups; 1-2 C_{1-3} alkyl or alkoxy groups, each optionally substituted with 1-3 halo groups; -NR⁹R¹⁰ wherein R⁹ and R¹⁰ are H or methyl; SCF₃ and heteroaryl;

X represents CH2;

a and b represent 0 or a represents 1 and b represents 0; one of a and b represent 1 and the other represents 0:

Y represents a spiroC₄₋₈cycloalkyl group or a 5-6 membered spiroheterocyclic group containing 1 N atom,

said ring being optionally substituted with a C₁₋₆ alkyl group, which is optionally substituted with 1-3 halo groups or 1 Phenyl ring that is optionally substituted with 1-2 halo, 1-2 C₁₋₃ alkyl or alkoxy groups, said alkyl and alkoxy substituents being further optionally substituted with 1-3 halo groups;

R² is H or C₁₋₃alkyl; R⁷ represents H or methyl;

m and n represent 0, and Z represents a 5-tetrazolyl group.

Claim 17 (Currently Amended) A compound in accordance with claim 1 wherein: R¹ is selected from the group consisting of:

(1) C_{1-6} alkyl optionally substituted with 1-3 groups selected from: OH, halo, C_{1-3} alkoxy, halo- C_{1-3} alkoxy and phenyl, said phenyl being optionally substituted with 1-3 halo groups, SO_2R^5 , and 1-2 C_{1-3} alkyl or alkoxy groups optionally substituted with 1-3 halo groups,

and

(2) aryl optionally substituted with 1-3 halo groups; 1-2 C₁₋₃alkyl or alkoxy groups, each optionally substituted with 1-3 halo groups; -NR⁹R¹⁰ wherein R⁹ and R¹⁰ are H or methyl; SCF₃ and heteroaryl;

X represents CH₂;

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a-and b represents 0 or a represents 1 and b represents 0; one of a and b represents 1 and the other represents 0:

Y represents a spiroC₄₋₈cycloalkyl group or a 5-6 membered spiroheterocyclic group containing 1 N atom,

said ring being optionally substituted with a C_{1-6} alkyl group, which is optionally substituted with 1-3 halo groups or 1 Phenyl ring that is optionally substituted with 1-2 halo, 1-2 C_{1-3} alkyl or alkoxy groups, said alkyl and alkoxy substituents being further optionally substituted with 1-3 halo groups;

R² is H or C_{1.3}alkyl;

R⁷ represents H or methyl;

m represents 0, n represents 2, and Z represents a CO₂R⁶ group.

Claim 18 (Currently Amended) A compound in accordance with claim 1 wherein: R¹ is selected from the group consisting of:

- (1) C_{1-6} alkyl optionally substituted with 1-3 groups selected from: OH, halo, C_{1-3} alkoxy, halo- C_{1-3} alkoxy and phenyl, said phenyl being optionally substituted with 1-3 halo groups, SO_2R^5 , and 1-2 C_{1-3} alkyl or alkoxy groups optionally substituted with 1-3 halo groups, and
- (2) aryl optionally substituted with 1-3 halo groups; 1-2 C_{1-3} alkyl or alkoxy groups, each optionally substituted with 1-3 halo groups; -NR⁹R¹⁰ wherein R⁹ and R¹⁰ are H or methyl; SCF₃ and heteroaryl;

X represents CH₂;

a and b represents 1 and b represents 1 and b represents 0; one of a and b represents 1 and the other represents 0;

Y represents a spiroC₄₋₈cycloalkyl group or a 5-6 membered spiroheterocyclic group containing 1 N atom,

said ring being optionally substituted with a C_{1-6} alkyl group, which is optionally substituted with 1-3 halo groups or 1 Phenyl ring that is optionally substituted with 1-2 halo, 1-2 C_{1-3} alkyl or alkoxy groups, said alkyl and alkoxy substituents being further optionally substituted with 1-3 halo groups;

R² is H or C₁₋₃alkyl;

R⁷ represents H or methyl;

m and n each represent 1, R³ represents OH, R⁴ represents H and Z represents a CO₂R⁶ group.

Claim 19 (Currently Amended) A compound in accordance with claim 1 selected from the following table:

| TABLE 1 | | | |
|----------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Compound | | Compound | |
| CF ₃ O NH | | OCF ₃ | |
| CF ₃ O OH OH | | | |
| | | HC PH AC PH | |
| | | HC OH | |

| His chi | We Control of the con |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HSC CH, HSC CH, HSC CH, OH | HSC CH3 FF |
| 45 A C C C C C C C C C C C C C C C C C C | HC CH C |
| H,C, CH, H,C | HC CH PF F |

| HC CH, NO | HC CH CON NO N |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | HC CH CONTRACTOR OF THE CONTRA |
| | HC CH C |
| t-Bu OCF ₃ | HC CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 C |

| t-Bu COCH3 | HC CH CO | ; |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| OCF ₃ | MC CH CO CH CO CH | |
| t-Bu NH HO OH | H _C CH ₃ CH | |
| OCF ₃ | HC CH, HC CH, HC CH, HC CH, | |

| H ₀ C CH ₃ O N N N N N N N N N N N N N N N N N N | H,C, CH, N,C OH, N,C O |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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---------------------------------------------------------------------------------------------|
| H _C CH ₃ N N N N N N N N N N N N N N N N N N N | H _C C CH ₃ O CH ₃ |
| H ₂ C ₂ C ₃ C ₄ | |
| H ₃ C CH ₃ | t-Bu OCF3 |

| M ₂ C OH ₃ OH OH | OF F |
|----------------------------------------|---------------------------------------------|
| t-Bu OH | t-Bu NN |
| t-Bu CI HD OH | 1-Bu N O HN HO OH |

| t-Bu CI HN OH | H ₂ C CH ₃ CH ₃ CO N N N N N N N N N N N N N N N N N N |
|-----------------------------------------|-----------------------------------------------------------------------------------------|
| H ₃ C CH ₃ N O OH | t-Bu NO HN HO OH |
| H ₂ C CH ₃ NO OH | H,C QH N N N N N N N N N N N N N N N N N N |

| H ₂ C CH ₃ | H,C CH, NO OH |
|-----------------------------------------------------------|-----------------------------------------------|
| H,C CH ₃ N N N N N N N N N N N N N N N N N N N | H,C OH, N O N N N N N N N N N N N N N N N N N |
| i-Bu CF ₃ | 4,C 24, 0 OH |

| t-Bu NO HO OH | t-Bu N O HO OH |
|---------------------------------------------------------|----------------|
| H ₂ C OH N N N N N N N N N N N N N N N N N N | t-Bu Co HN OH |
| HC OH, NO | t-Bu NO HO OH |

| H ₃ C CH ₃ | H ₂ C CH ₃ N O H ₃ C OH OH |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H ₂ C CH ₃ O O N N N N N N N N N N N N N N N N N | H _C CH ₃ |
| H ₂ C CH ₃ | H ₃ C OH ₃ |

| t-Bu N OH | M ₃ C ₂ CH ₃ C |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| t-Bu NH O OH | t-Bu CH ₃ |
| t-Bu N N N N N N N N N N N N N N N N N N N | H ₂ C QH ₃ |

| t-Bu N N N N N N N N N N N N N N N N N N N | 4,с 4,с | |
|------------------------------------------------------------------------|---------------------------------|--------------------|
| H ₂ C CH ₃ N O N O N O N O N O N O N O N O N O N | CH ₃ CH ₄ | DH OH |
| HC CH NO | CH ₃ | CH ₂ CI |

| H,C OH, NO | CH ₃ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| MC, N-CH, N- | CH ₃ CH ₃ CH ₃ OH |
| CH ₂ CH ₃ CH ₃ CH ₃ CH ₄ CH ₅ CH ₅ CH ₆ CH ₆ CH ₇ | CH ₃ CH ₃ CH ₃ CH ₃ CH ₃ N N N N N N N N N N N N N N N N N N N |
| CF ₃ CF ₃ CF ₃ CF ₃ CF ₃ N N N N N N N N N N N N N N N N N N N | CH ₃ CH ₃ O |

| CF ₃ CF ₃ CH ₃ | CH ₃ CH ₃ OH |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| CH ₃ CH ₃ N N N N N N N N N N N N N N N N N N N | CH ₂ CH ₃ CH ₃ CH ₃ OH |
| CH ₃ CH ₃ OH | CH ₃ CH ₃ CH ₃ CH ₃ OH |
| CH ₃ CH ₃ N N N N N N N N N N N N N N N N N N N | |

| CH ₀ CH ₃ CH ₃ CH ₃ | CHO CHO CHO CHO |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH ₃ | CHy CH ₀ CHy CHy N N N N N N N N N N N N N N N N N N N |
| CH ₃ CH ₃ CH ₃ O CH ₃ O O O O O O O O O O O O O O O O O O O | CH ₂ CH ₃ C |
| CH ₉ CH ₉ CH ₉ CH ₉ Oh | CH2CH6 CH3 CH3 CH3 CH3 CH3 CH3 CH3 |

or a pharmaceutically acceptable salt or solvate thereof.

Claim 20 (Original) A pharmaceutical composition comprising a compound in accordance with claim 1 in combination with a pharmaceutically acceptable carrier.

Claim 21 (Original) A method of treating type 2 diabetes mellitus in a mammalian patient in need of such treatment comprising administering to said patient a compound in accordance with claim 1 in an amount that is effective to treat said type 2 diabetes mellitus.